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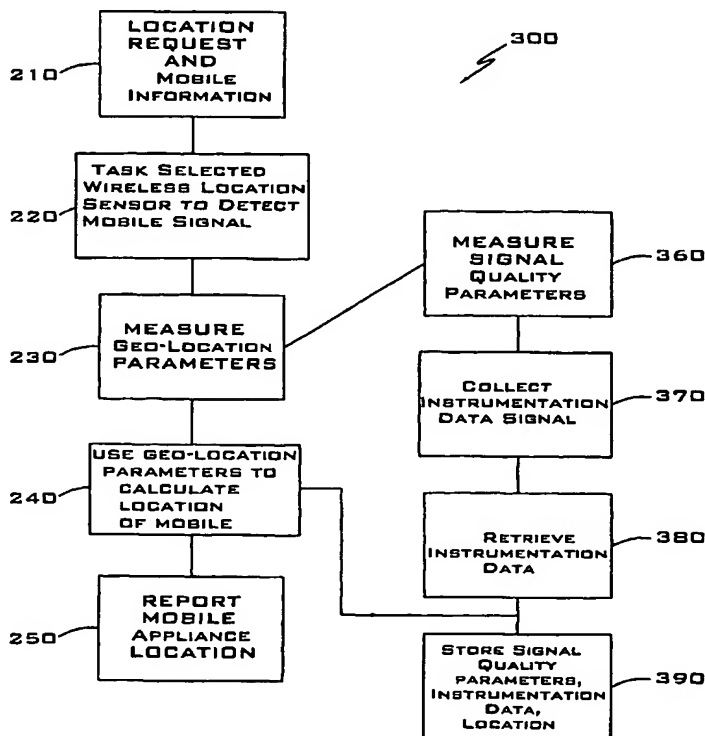
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(54) Title: WIRELESS COMMUNICATION NETWORK MEASUREMENT DATA COLLECTION USING INFRASTRUC-
TURE OVERLAY-BASED HANDSET LOCATION SYSTEMS



(57) Abstract: A method and system for collecting test and measurement data for a wireless communication system utilizes a network overlay geo-location system to collect the data (210-220). The wireless communication system has plural base stations defining a signal coverage (230-250) area for communication with a mobile appliance and collects test and measurement data simultaneous on the forward and reverse links during standard geo-location processes (250, 360-390). The wireless communication system also collects test and measurement data when the network overlay geolocation system is in an idle state.

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A. CLASSIFICATION OF SUBJECT MATTER

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US CL : 455/456.1, 404.2, 432.1, 436, -437, 423, 67.11; 342/450, 701/300; 340/825.37, 525.49

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 455/456.1, 404.2, 432.1, 436, -437, 423, 67.11; 342/450, 701/300; 340/825.37, 525.49

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|------------|---|--------------------------------------|
| X | US 2002/0094821 A1 (KENNEDY JR.) 18 July 2002 (18.07.2002), See Title, Abstract, Figs. 1-5A, Entire Document. | 1-7, 11, 24-26, 29 |
| X | US 6,212,319 B1 (SALEH et al.) 03 April 2001 (03.04.2001), See Column 5, Line 55 - Column 11, Line 49, Figs. 3-12 & Entire Document. | 1-40 |
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| X | US 2002/0128020 A1 (CARLSON et al.) 12 September 2002 (12.09.2002), See Abstract, Page 2, Paragraph [0019] - Page 5, Paragraph [0039], Figs. 1-2 & Entire Document. | 1-40 |
| X | US 5,317,323 (KENNEDY ET AL.) 31 May 1994 (31.05.1994), See Abstract, Column 2, Line 65 - Column 6, Lines 42, Figs. 1-9. | 1, 12, 18, 20, 24, 30 |
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| Y | | 2-10, 13-17, 19, 21-23, 25-29, 31-40 |
| Y,T | US 2004/0043775 A1 (KENNEDY ET AL.) 04 March 2004 (04.03.2004), See Page 2, Paragraph [0022] - Page 4, Paragraph [0043], Figs. 1-3. | 1-40 |



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| X | US 5,465,289 (KENNEDY ET AL.) 07 November 1995 (07.11.1995), See Abstract, Column 2, Line 12 - Column 6, Line 2, Figs. 1-4C. | 1-40 |